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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	NO. CONFIRMATION NO	
10/053,050	01/	19/2002	Robert A. Huggins	5351		
. 7:	590	12/10/2003		EXAMINER		
Robert A. Huggins 824 San Francisco Ct.				WEINER, LAURA S		
Stanford, CA 94305				ART UNIT	PAPER NUMBER	
				1745		
				DATE MAILED: 12/10/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

19	Applicatio	n No.	Applicant(s)							
	10/053,050		HUGGINS ET AL.							
Office Action Summary	Examiner		Art Unit							
	Laura S W	einer	1745							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address										
Period for Reply A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	i. I.136(a). In no ever eply within the statut d will apply and will ute, cause the applic	nt, however, may a reply be time tory minimum of thirty (30) days expire SIX (6) MONTHS from pation to become ABANDONE	ely filed will be considered time the mailing date of this o	y. ommunication.						
1) Responsive to communication(s) filed on 19	January 2002	0								
2a)☐ This action is FINAL. 2b)⊠ Thi	s action is no	n-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.										
Disposition of Claims			Ť							
4) Claim(s) 1-77 is/are pending in the applicatio	n.									
4a) Of the above claim(s) is/are withdrawn from consideration.										
5) Claim(s) is/are allowed.										
6)⊠ Claim(s) <u>1-77</u> is/are rejected.										
7) Claim(s) is/are objected to.										
8) Claim(s) are subject to restriction and	or election re	quirement.	•							
Application Papers										
9)☐ The specification is objected to by the Examir	ner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the E	=xaminer. Not	e the attached Office	Action or form P	O-152.						
Priority under 35 U.S.C. §§ 119 and 120										
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer	nts have been	received.								
Copies of the certified copies of the pri application from the International Burea See the attached detailed Office action for a lis	au (PCT Rule at of the certifi	17.2(a)). ed copies not receive	d.							
13) Acknowledgment is made of a claim for domes since a specific reference was included in the fi 37 CFR 1.78.	irst sentence o	of the specification or	in an Application	l application) Data Sheet.						
a) The translation of the foreign language pr				a ana sifi s						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.										
Attachment(s)										
1) Notice of References Cited (PTO-992) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	5	4) Interview Summary (5) Notice of Informal Pa 6) Other:								

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DETAILED ACTION

Claim Objections

1. Claims 1, 17, 33, 49 are objected to because of the following informalities: In claim 1, "preliminary reactions of the negative electrode" should instead be "preliminary reactions of a negative electrode". Claim 17 should recite "in a negative electrode... which an electroactive". Claims 33, 49 should recite "which an electroactive species" Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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3. Claims 1-16, 17-32, 33-48, 49-77 are rejected under 35 U.S.C. 102(b) as being anticipated by Tahara et al. (5,395,711).

Tahara et al. teaches a non-aqueous electrolyte secondary battery having a negative electrode, a positive electrode and a lithium ion-conductive non-aqueous electrolyte. A silicon oxide or silicate containing lithium is used as the negative electrode active material. Tahara et al. teaches in column 25, lines 17-28, that a fairly large decrease in the discharge capacity in the first cycle with respect to the charge capacity in the first cycle (initial loss), the major cause of this is a side reaction which occurs between Li and graphite when lithium ion is electrochemically absorbed into the negative electrode active material in the charge in the first cycle. The side reaction is due to the existence of Li which is absorbed by SiO as the negative electrode material and remains without release during discharge.

4. Claims 1-16, 17-32, 33-48, 49-77 are rejected under 35 U.S.C. 102(e) as being anticipated by Shirane et al. (6,410,188).

Shirane et al. teaches in column 11, lines 15-27, a non-aqueous electrolyte secondary battery comprising a positive electrode and a negative electrode. Shirane et al. teaches in column 5, lines 46-60, the use of SiO as a material for the negative electrode. The charge-discharge performance of SiO was confirmed in advance using a test battery with metallic lithium as an opposite electrode. The initial Li charging capacity of SiO was 2500 mAh/g but only about 1500 mAh/g was discharged in the next discharge, revealing that the irreversibility capacity of SiO was about 1000 mAh/g.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S Weiner whose telephone number is 703-308-4396. The examiner can normally be reached on M-F (7:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-2383. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Laura S Weiner Primary Examiner Art Unit 1745

December 4, 2003